

| | |
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| APPENDIX | 0.5 FIG. |
| CLASS | SUBCLASS |
| DRAFTS | |

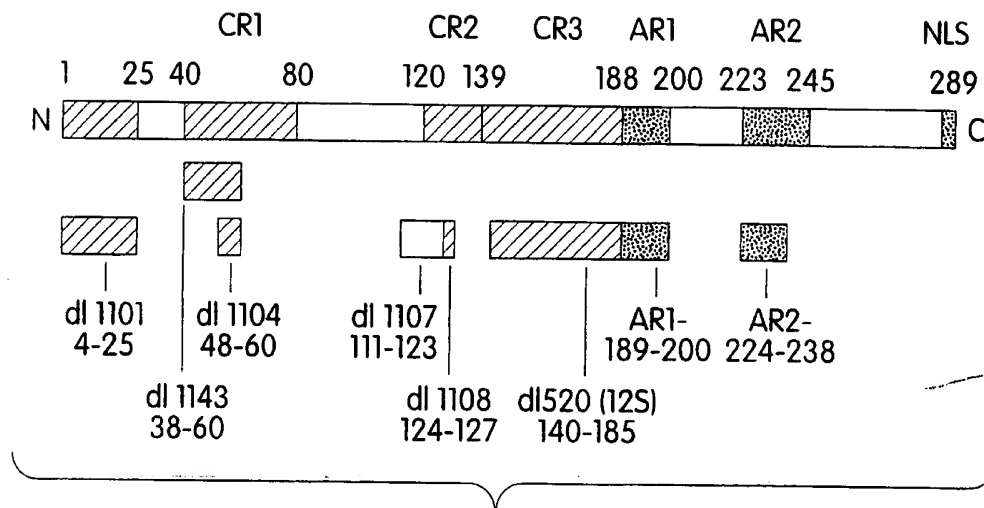


Fig. 1A

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| APPROVED | FIG. | SUCCESS |
| BY | | |
| DRAFTSMAN | | |

FIG. 1B

| VIRUS MUTANT | DESCRIPTION |
|---------------------------|---|
| wt Ad5 | wt E1A (12S & 13S mRNAs), wt E1B. In some cases <i>dl</i> 309 which has a partial deletion of E3 was used |
| 12S / E1B- | 12S E1A mRNA only, no E1B expression |
| 13S / E1B- | 13S E1A mRNA only, no E1B expression |
| E1B / 55K- | wtE1A (12S & 13S mRNAs), no E1B 55K expression, wt E1B 19K |
| E1B / 19K- | wtE1A (12S & 13S mRNAs), no E1B 19K expression, wt E1B 55K |
| <i>dl</i> 1101 / E1B- | 12S/13S E1A mRNAs, E1A mutation as in Fig. 1A, no E1B expression |
| <i>dl</i> 1104 / E1B- | 12S/13S E1A mRNAs, E1A mutation as in Fig. 1A, no E1B expression |
| <i>dl</i> 1107 / E1B- | 12S/13S E1A mRNAs, E1A mutation as in Fig. 1A, no E1B expression |
| <i>dl</i> 1108 / E1B- | 12S/13S E1A mRNAs, E1A mutation as in Fig. 1A, no E1B expression |
| <i>dl</i> 1143 / 08/ E1B- | 12S/13S E1A mRNAs, E1A mutation as in Fig. 1A, no E1B expression |
| AR1- / E1B- | 12S/13S E1A mRNAs, E1A mutation as in Fig. 1A, no E1B expression |
| AR2- / E1B- | 12S/13S E1A mRNAs, E1A mutation as in Fig. 1A, no E1B expression |
| AR1- / AR2- / E1B- | 12S/13S E1A mRNAs, E1A mutation as in Fig. 1A, no E1B expression |
| AD147VL / E1B- | 13S E1A only, E1A point mutation in CR3, no E1B expression |
| AD171CS / E1B- | 13S E1A only, E1A point mutation in CR3, no E1B expression |
| AD185SG / E1B- | 13S E1A only, E1A point mutation in CR3, no E1B expression |
| <i>dl</i> 1019 | wt E1A, E1B, E2 and E3, no E4 expression, in Ad2 |
| AdLacZ | no E1A or E1B expression, wt E2, E3 and E4 |
| Ad5 <i>dl</i> 70-8 | no E1A, E1B or E3 expression, wt E2 and E4 |
| AdRSV β -gal.11 | no E1A, E1B or E4 expression, wt E2 and E3 |

Fig. 1B

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| APPROVED | FIG. |
| BY | SUBCLASS |
| DRAFTS | |

FIG. 2

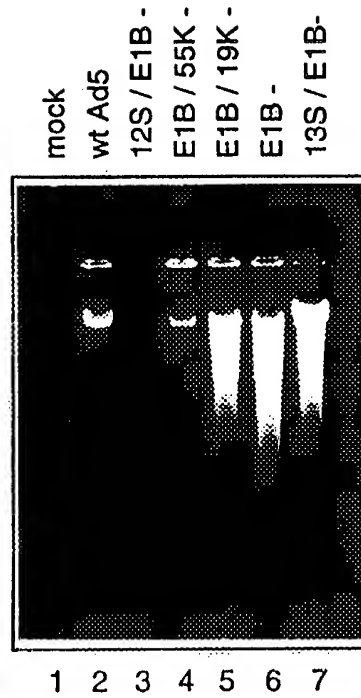


Fig. 2

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Saos-2 / Neo (2a2) cells

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| APPROVED BY | FIG. | SUBCLASS |
| DRAFTSMAN | | |

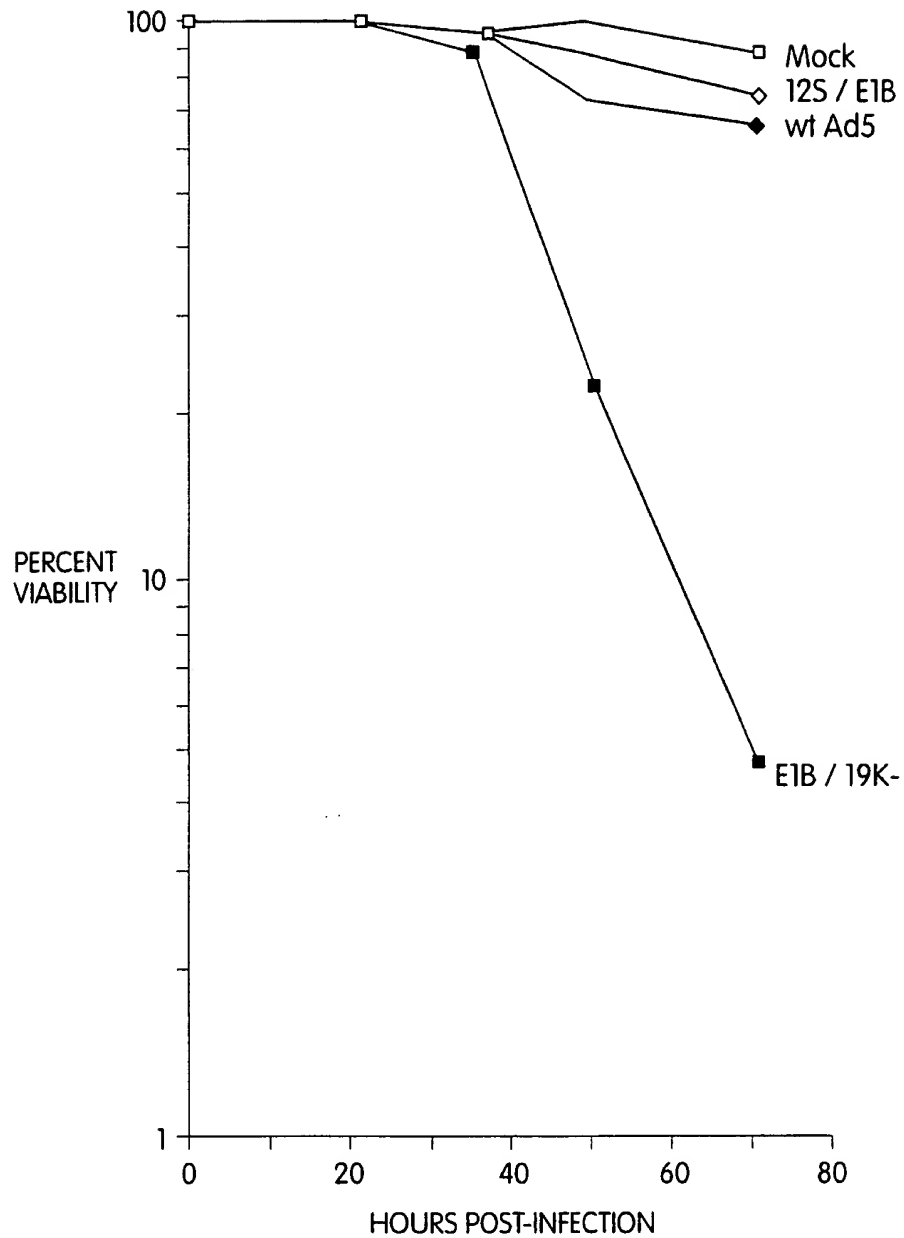


Fig. 3A

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| APPROVED | FIG. |
| JY | CLASS |
| DRAFTSMAN | SUBCLASS |

Saos-2 / Bcl-2 (3g4) cells

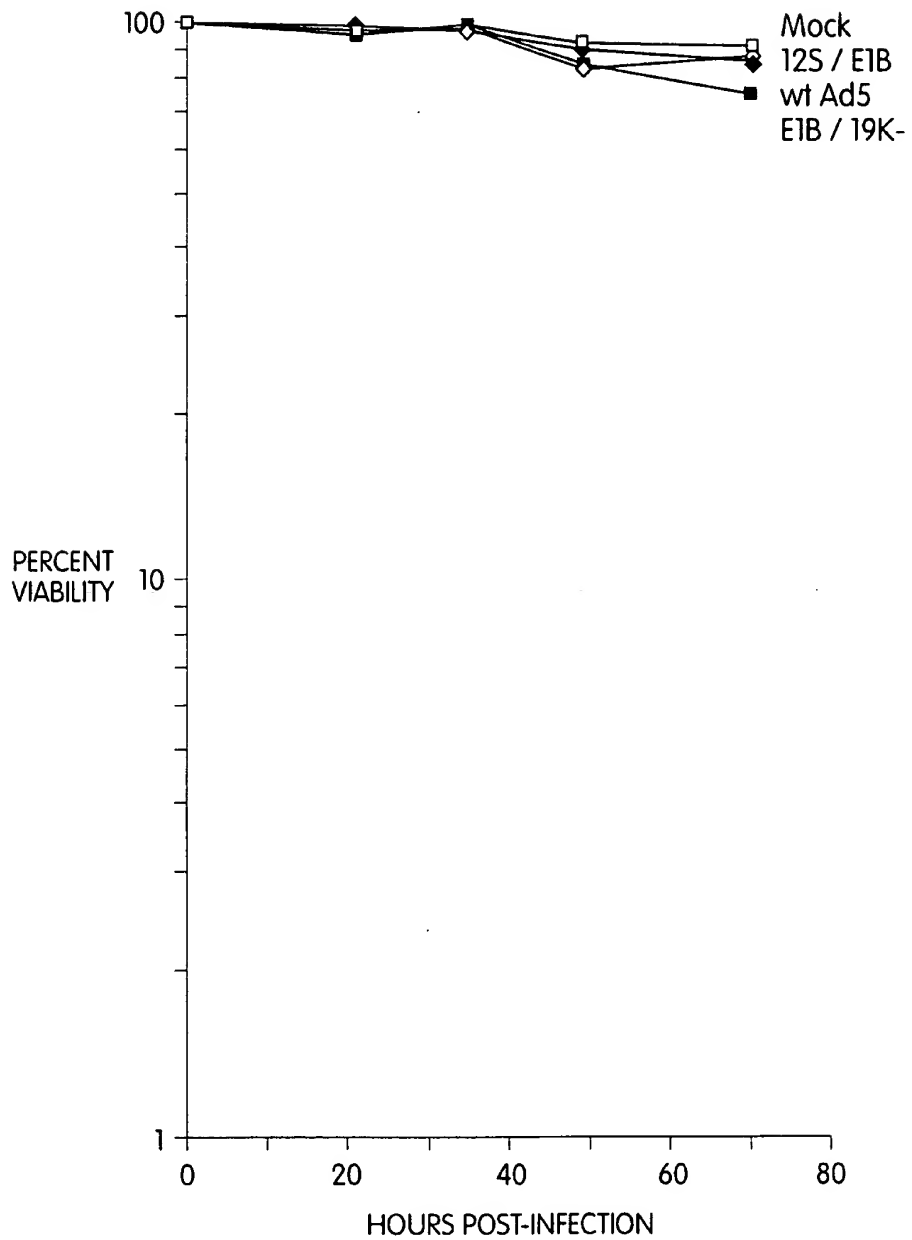


Fig. 3B

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| APPROVE: FIG. | |
| BY | CLASS SUBCLASS |
| DRAFTSMAN | |

FIG. 4

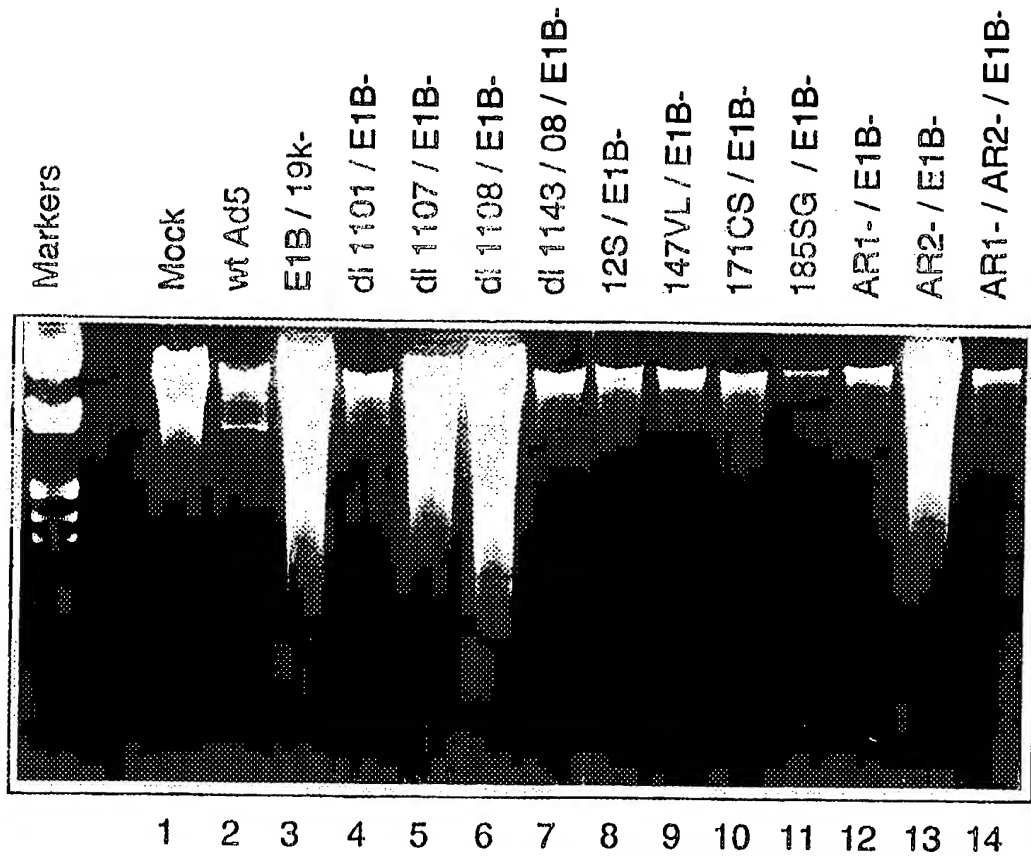


Fig. 4

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| APPROVED | U.S. FIG. |
| BY | CLASS |
| DRAFTSMAN | SUBCLASS |

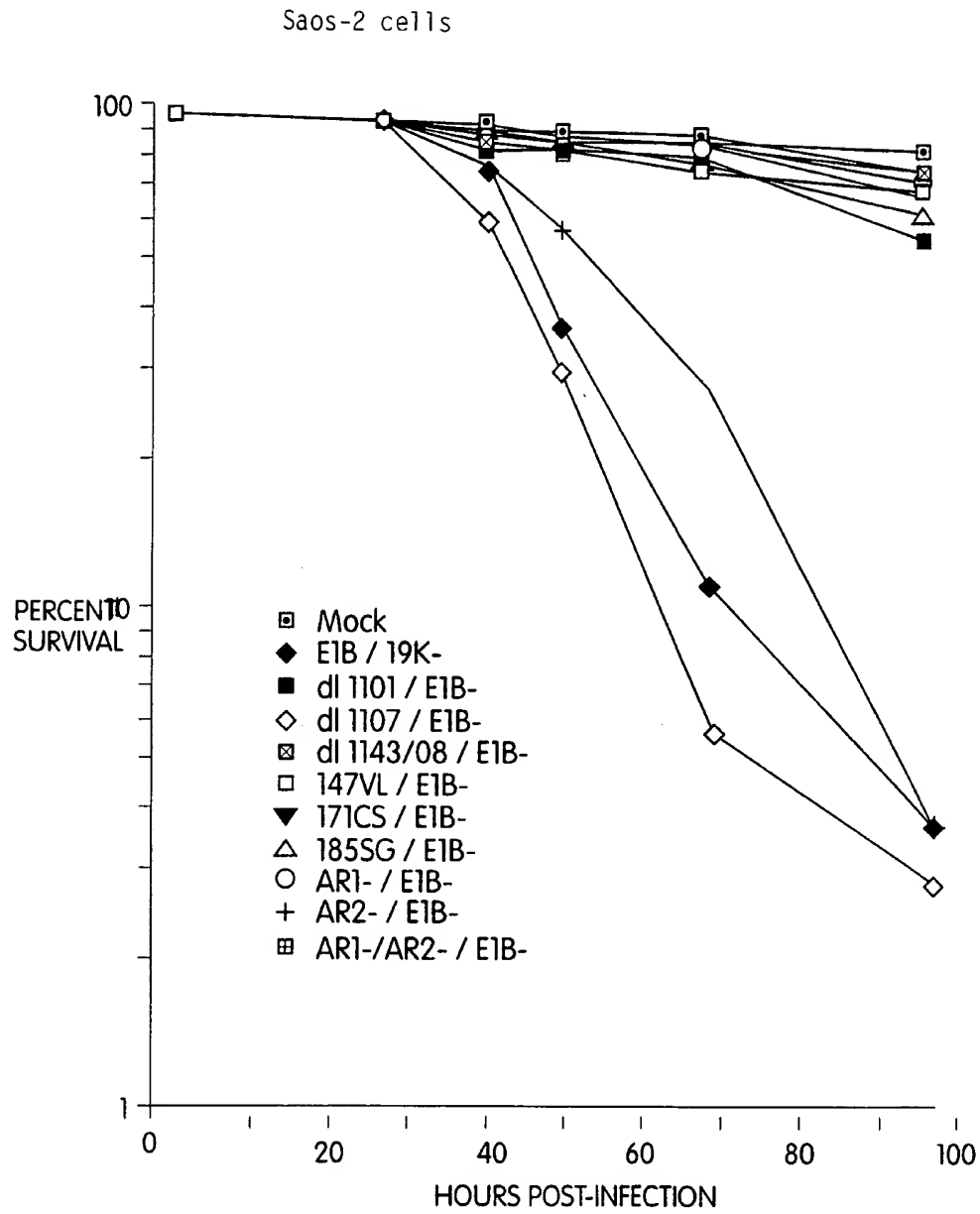


Fig. 5

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| FIG. | |
| APPROVED | CLASS |
| DRAFTSMAN | |

1 2 3 4 5 6 7 8 9 10

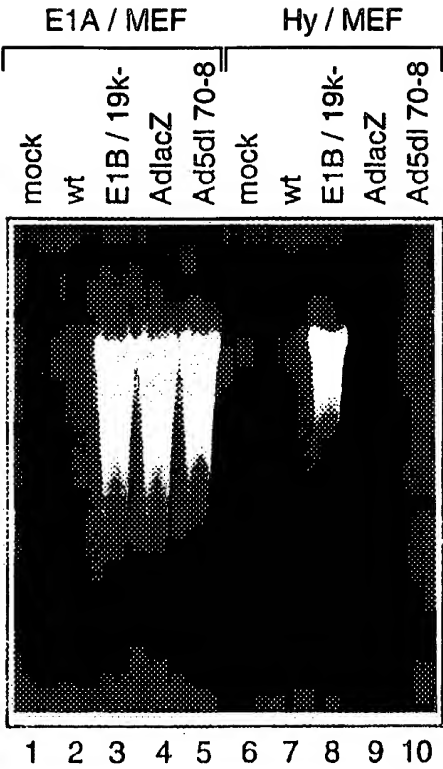


Fig. 6

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| APPROVED | FIG. |
| BY | SUBCLASS |
| DRAFTSMAN | |

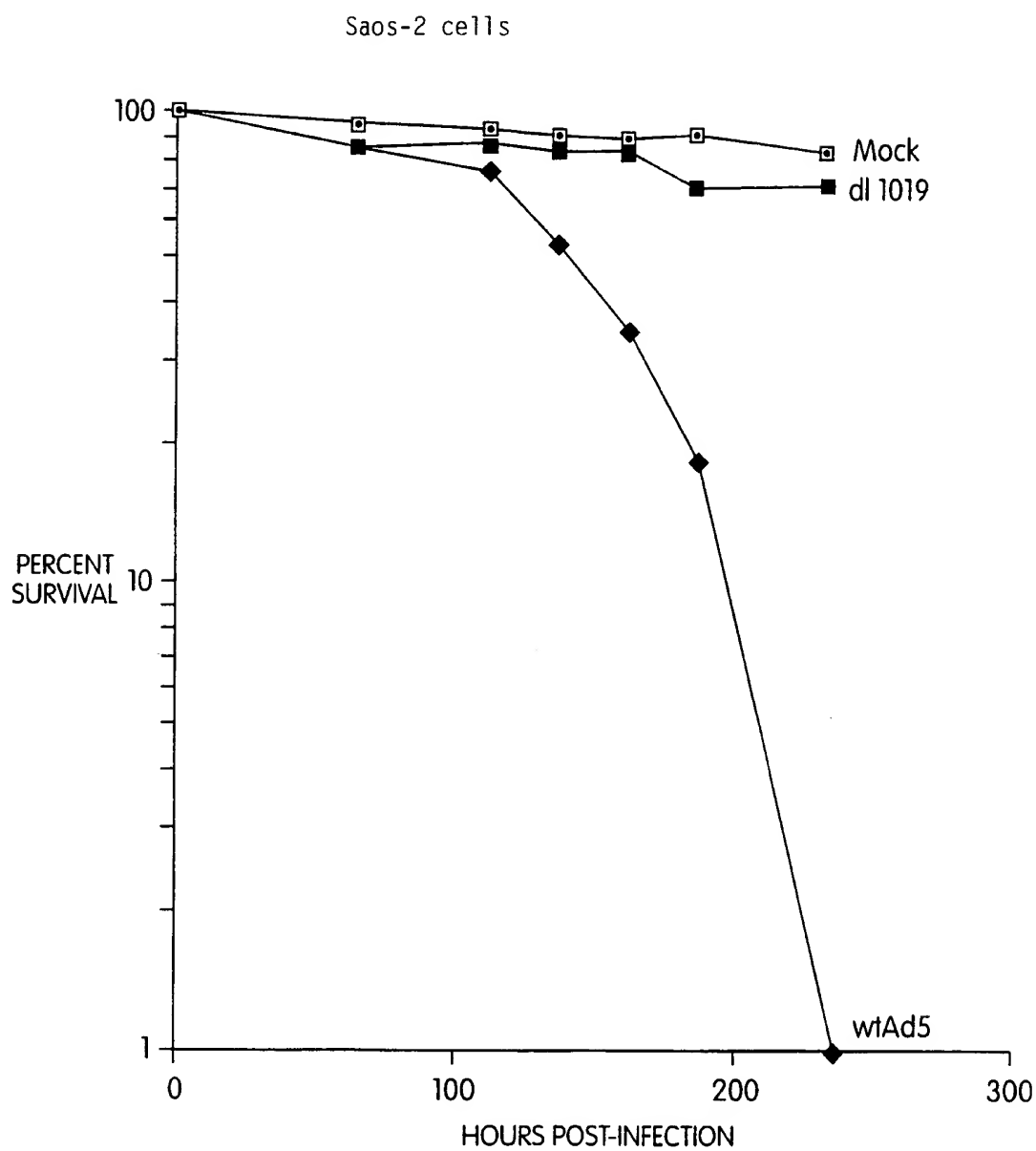


Fig. 7

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| APPROVED | U.S. FIG. |
| BY | CLASS |
| DRAFTSMAN | SUBCLASS |

FIG. 8

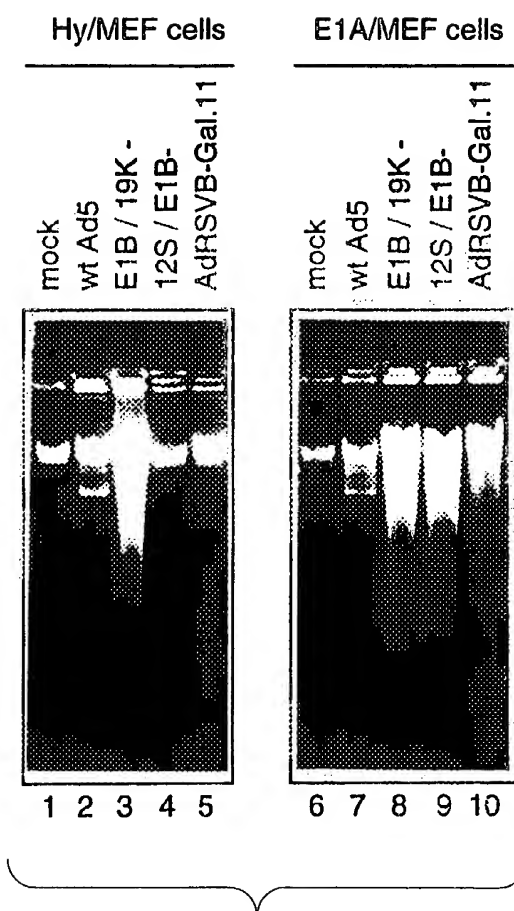


Fig. 8

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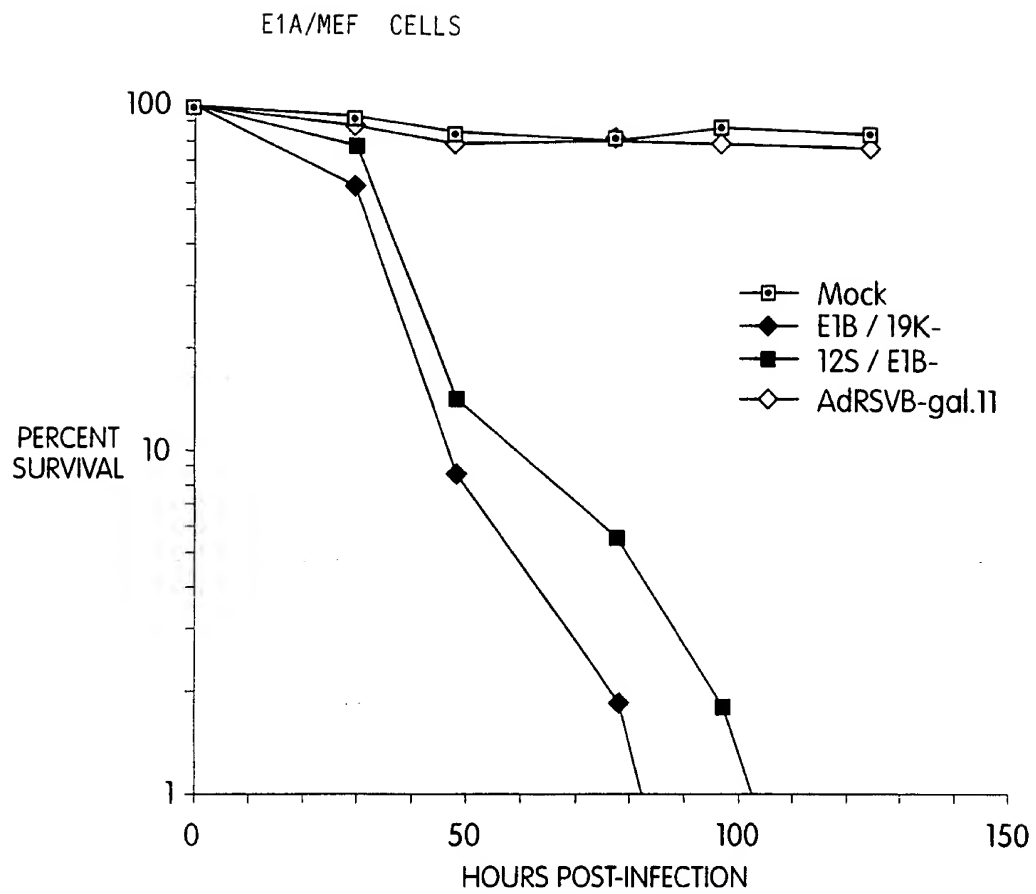
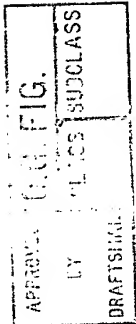


Fig. 9A

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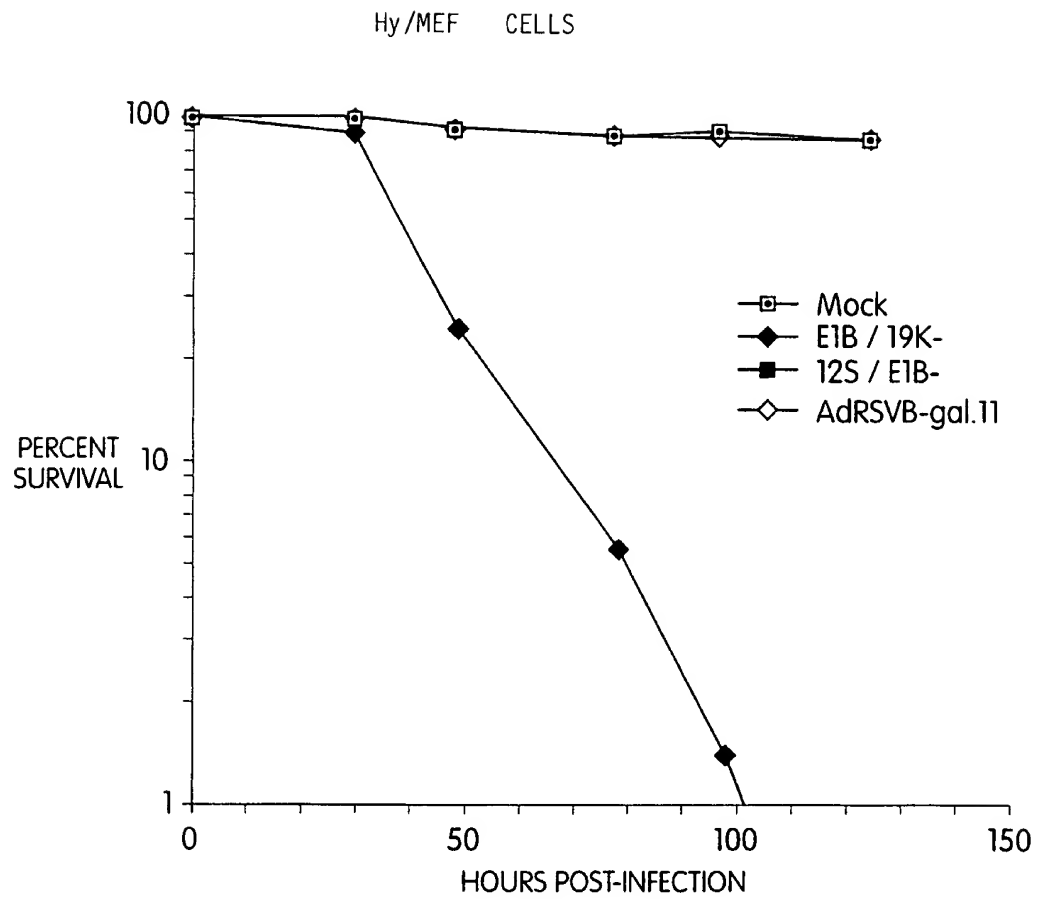


Fig. 9B

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| APPROVED | FIG. |
| BY | 1998 |
| DRAFTSMAN | SUBCLASS |

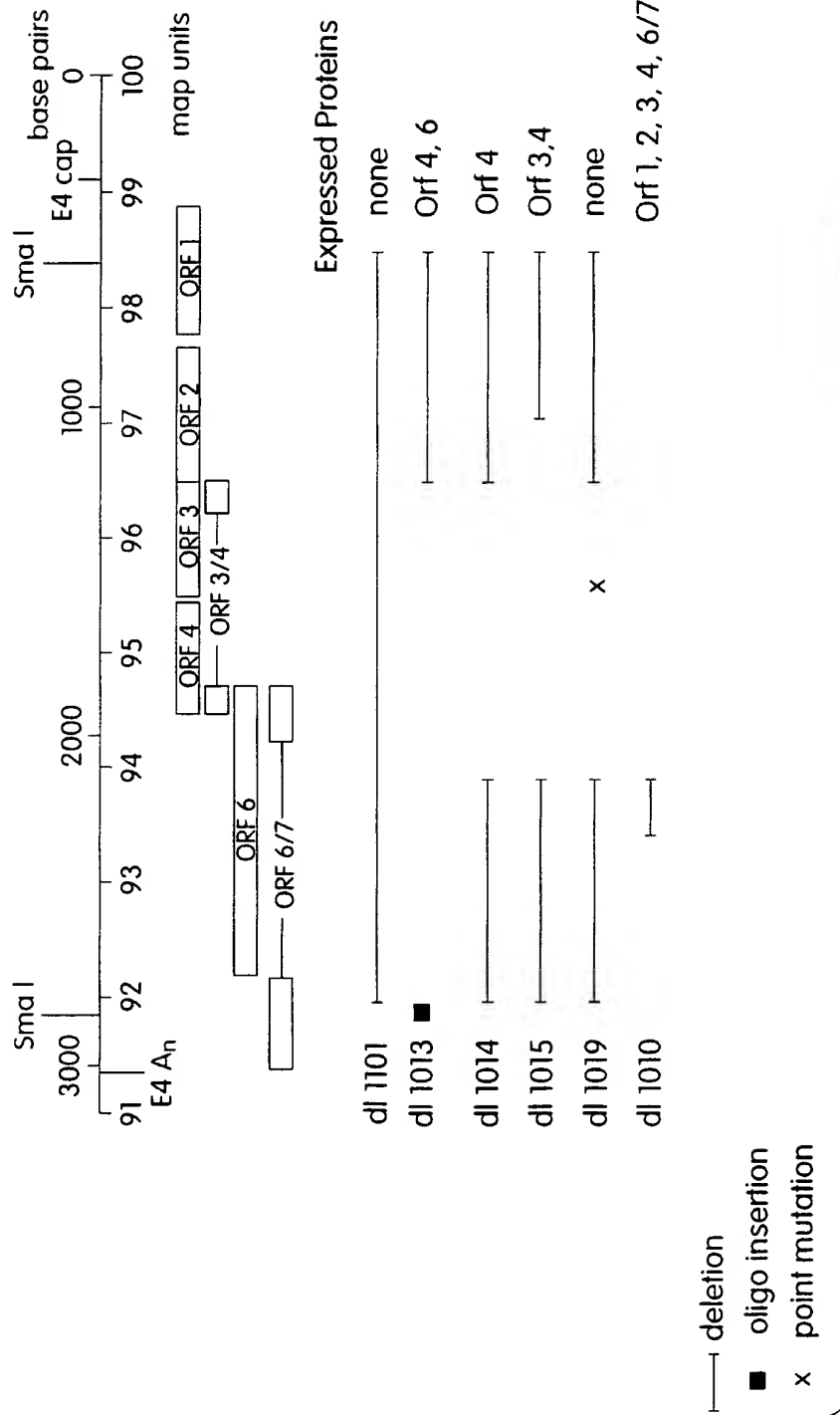


Fig. 10

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| FIG. | 11 |
| APPROV. | |
| DATE | 1/10/98 |
| DRAFTS | 100 |

SUBSTITUTE SHEET (RULE 26)

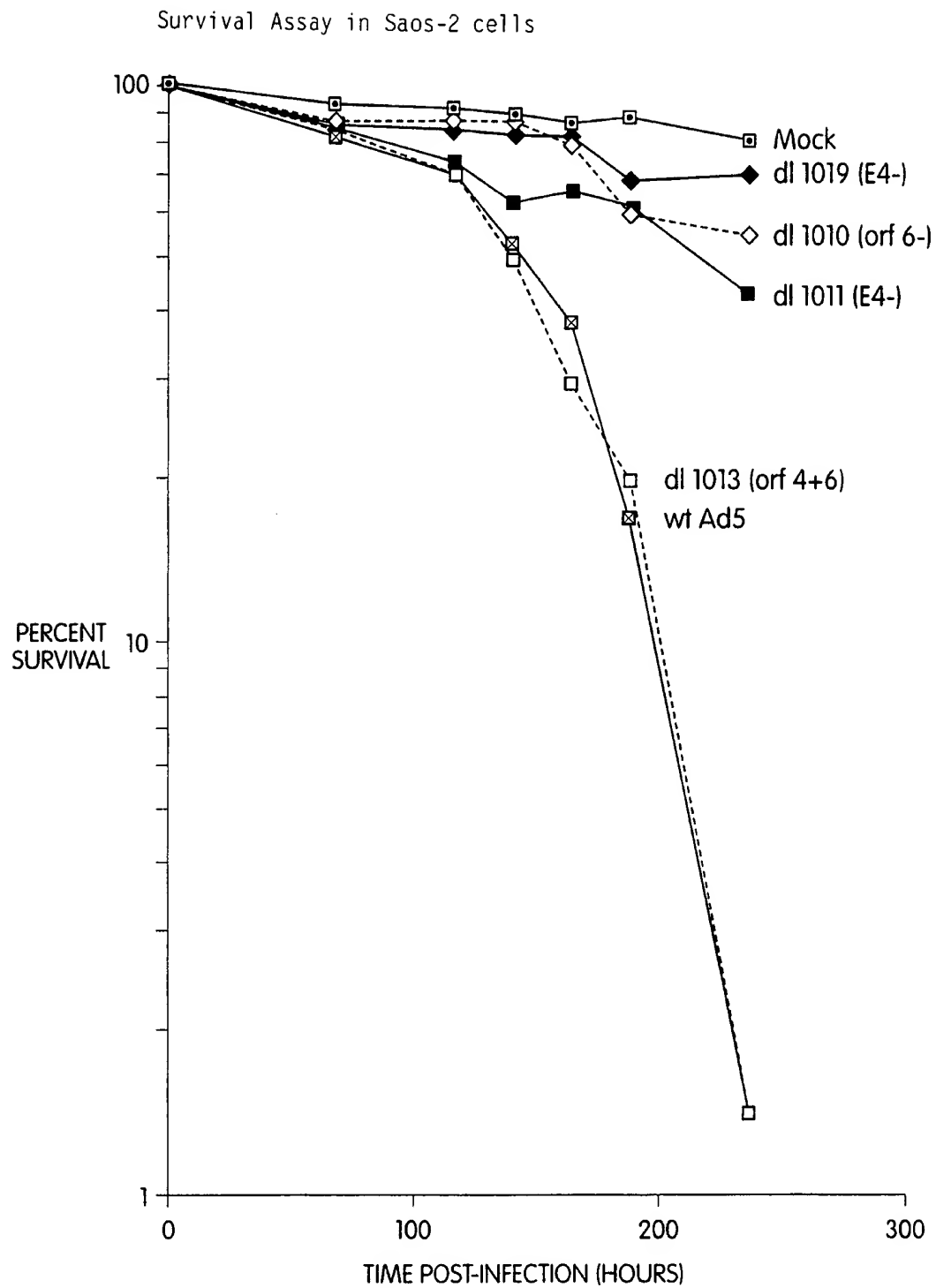


Fig. 11

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| APPROVED | FIG. 12 | CLASS | SUBCLASS |
| BY | | | |
| DRAFTSMAN | | | |

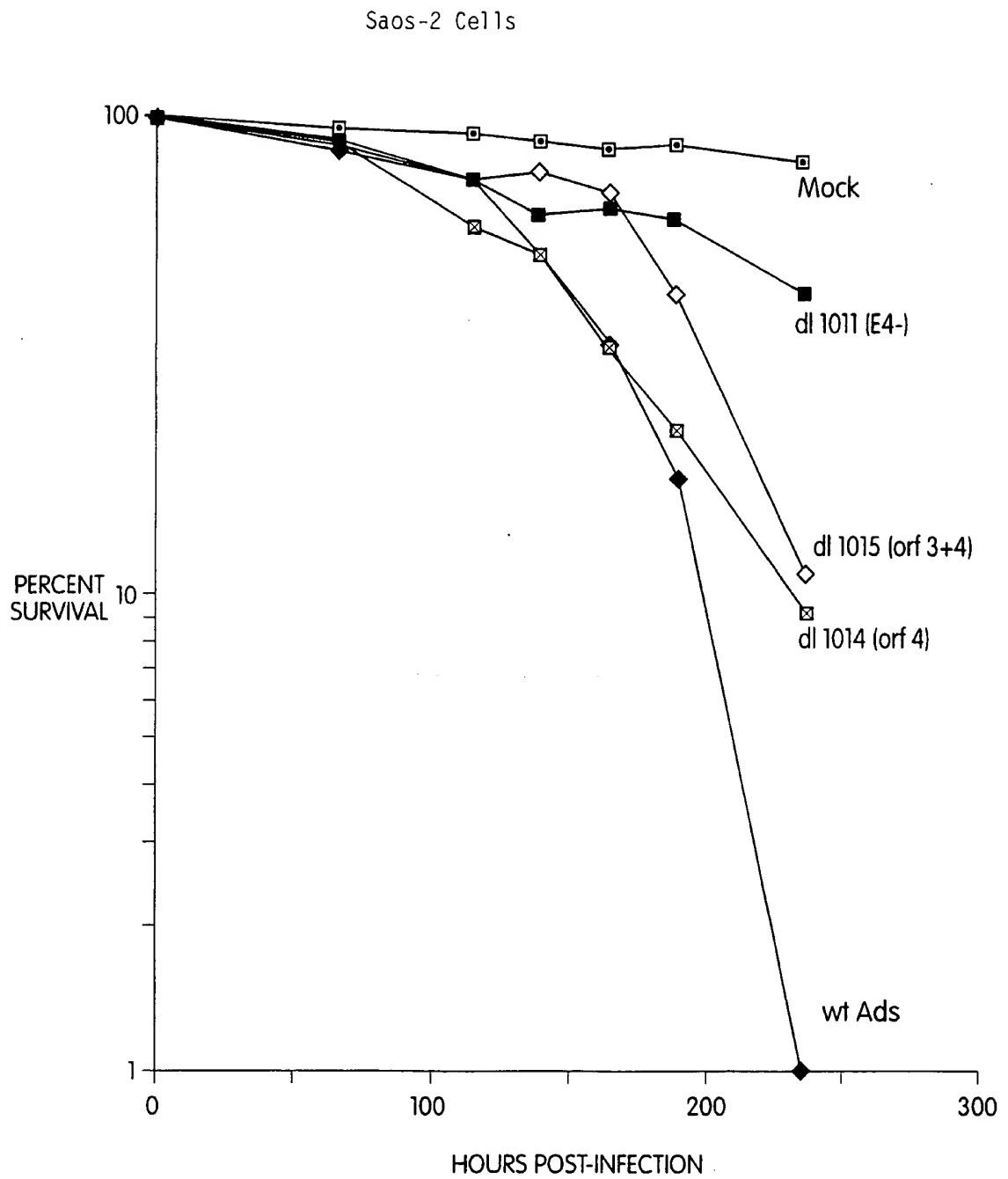


Fig. 12

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| APPROVED | FIG. |
| BY | CLASS/SUBCLASS |
| DRAFTS | |

CELL KILLING A1.A6 Cells

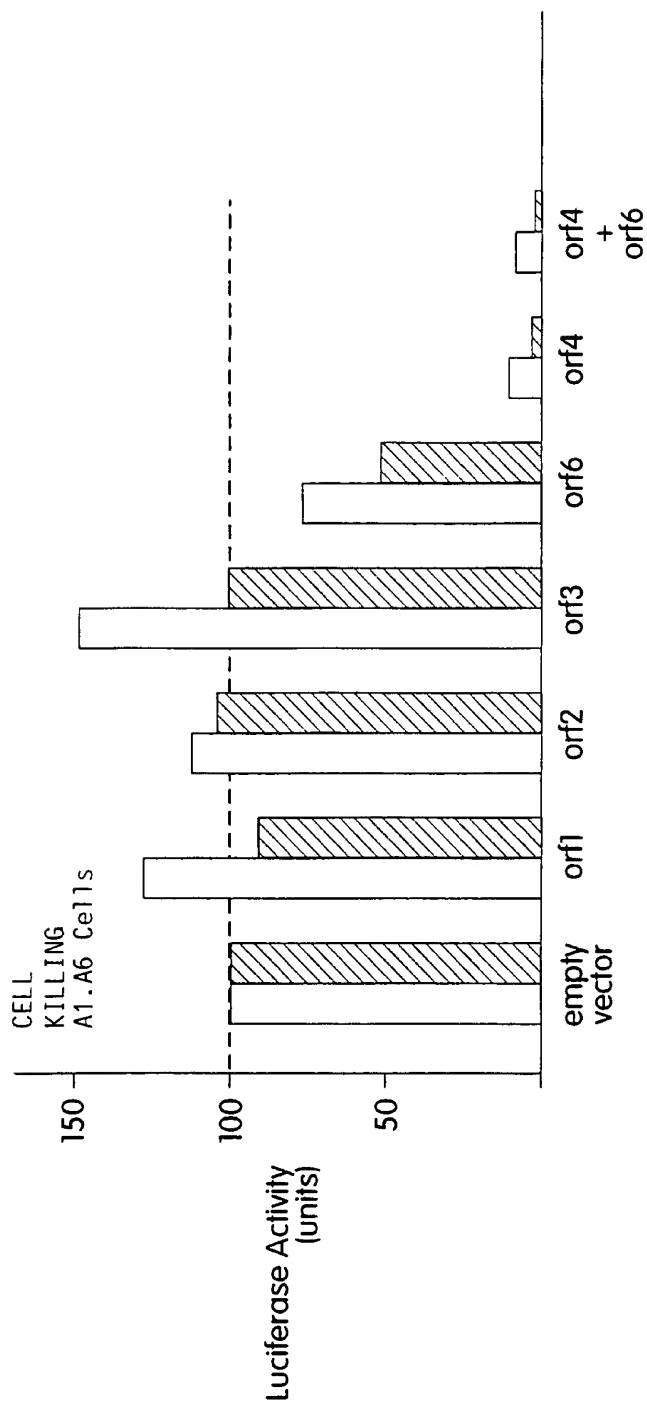


Fig. 14

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Ad5 E4orf6

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| FIG. | CLASS |
| 1 | 1 |
| APPROVED | DRAFTSMAN |
| BY | |

10 20 30 40

atgactacgtccggcggttccatttggcatgacactacgac 40
 caacacgatctcggttgtctcggcgccactccgtacagtag 80
 ggatcgtctacctccttttgagacagaaacccgcgctacc 120
 atactggaggatcatccgctgctgcccgaatgtaacactt 160
 tgacaatgcacaacgtgagttacgtgcgaggtcttccttg 200

210 220 230 240

cagtgtgggatttacgctgattcaggaatgggttgttccc 240
 tgggatatggttctaacgcgggaggagcttgaatcctga 280
 ggaagtgtatgcacgtgtgcctgtgttgtgccaacattga 320
 tatcatgacgagcatgatgatccatgggttacgagtcctgg 360
 gctctccactgtcattgttccagtcgccggttccctgcagt 400

410 420 430 440

gtatagccggcgggcagggttttggccagctgggttaggat 440
 ggtgggtggatggcgccatgtttaatcagaggtttatatgg 480
 taccgggagggtggtgaattacaacatgccaaaagaggtaa 520
 tgtttatgtccagcgtgtttatgaggggtcgccacttaat 560
 ctacctgcgcttgtggtatgatggccacgtgggttctgtg 600

610 620 630 640

gtccccgccatgagctttggatacagcgccttgcaactgtg 640
 ggattttgaacaatatgtggtgctgtgctgcagttactg 680
 tgctgatttaagtgaatcaggggtgcgctgctgtgcccg 720
 aggacaaggcgcccttatgctgcgggcggtgcgaatcatcg 760
 ctgaggagaccactgccatgttgattcctgcaggacgga 800

810 820 830 840

gcggcgggcggcagcagtttattcgcgcgctgctgcagcac 840
 caccgccctatcctgatgcacgattatgactctaccccca 880
 tgtag 885

10 20 30 40

MTTSGVPFGMTLRPTRSRLSRRTPYSRDRLPPFETETRAT 40
 ILEDHPLLPECNTLTMHNVSIVRGLPCSVGFTLIQEWVVP 80
 WDMVLTREELVILRKCMHVCLCCANIDIMTSMMIHGYESW 120
 ALHCHCSSPGSLQCIAGGQVLASWFRMVVDGAMFNQRFIW 160
 YREVVNYNMPKEVMFMSSYFMRGRHLIYLRLWYDGHVGSV 200

210 220 230 240

VPAMSFYGYSALHCGILNNIVVLCCSYCADLSEIRVRCCAR 240
 RTRRLMLRAVRRIIAEETTAMLYSCRTERRRQOFIRALLQH 280
 HRPILMHDYDSTPM. 295

Fig.15

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| APPROVED | BY | DRAFTSMAN |
| CLASS | | SUBCLASS |

Ad5 E4orf4

10 20 30 40
 atggttcttccagctcttcccgtcctcccgtgtgtgact 40
 cgcagaacgaatgtgtaggttggctgggtgtggcttattc 80
 tgcggtggtggatgttatcagggcagcggcgcacatgaagga 120
 gtttacatagaacccgaagccagggggcgcctggatgctt 160
 tgagagagtggatataactacaactactacacagagcgatc 200

210 220 230 240
 taagcggcgagaccggagacgcagatctgtttgtcacgcc 240
 cgcacctggttttgcttcaggaaatatgactacgtccggc 280
 gttccatttgcatgacactacgaccaacacgatctcggt 320
 tgtctcggcgccactccgtacagtag 345

10 20 30 40
 MVLPALPAPPVCD SQNECVGWLGVAYS AVVDVIRAAAH EG 40
 VYIEPEARGLDALREWIYYNYT ERSKRRDRRRSVCHA 80
 RTWFCFRKYDYVRRSIWHD TTTNTISVVS AHSVQ. 115

Fig.16